### PATENT COOPERATION TREATY

#### From the INTERNATIONAL BUREAU

### **PCT**

NOTIFICATION OF TRANSMITTAL
OF COPIES OF TRANSLATION
OF THE INTERNATIONAL PRELIMINARY REPORT
ON PATENTABILITY
(CHAPTER I OR CHAPTER II
OF THE PATENT COOPERATION TREATY)
(PCT Rules 44bis.3(c) and 72.2)

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Date of mailing (day/month/year) 17 January 2008 (17.01.2008)	
Applicant's or agent's file reference FP05-0298-00	IMPORTANT NOTIFICATION
International application No. PCT/JP2005/022790	International filing date (day/month/year) 12 December 2005 (12.12.2005)
Applicant HAMAMA	ATSU PHOTONICS K.K. et al

l.	Transmittal	of the	translation	to	the	applicant.
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The International Bureau transmits herewith a copy of the English translation of the international pr	eliminary report on
patentability (Chapter I).	ommany report on

The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter II).

### 2. Transmittal of the copy of the translation to the designated or elected Offices.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following designated or elected Offices requiring such translation:

EP

The following designated or elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

AE, AG, AL, AM, AP, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EA, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OA, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

### 3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability (Chapter II).

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned within the applicable time limit (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

08.1.23

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Authorized officer

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### PATENT COOPERATION TREATY

## **PCT**

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44his)

Applicant's or agent's file reference FP05-0298-00	FOR FURTHER ACTION	See item 4 below	
International application No. PCT/JP2005/022790	International filing date (day/month/ycar) 12 December 2005 (12.12.2005)	Priority date (day/month/year) 30 June 2005 (30.06.2005)	
International Patent Classification (8th See relevant information in Form F	n edition unless older edition indicated) PCT/ISA/237		
Applicant HAMAMATSU PHOTONICS K.K.			

1.	This international preliminary re International Searching Authorit	eport on patentability (Chapter I) is issued by the International Bureau on behalf of the y under Rule 44 bis.1(a).
2.	This REPORT consists of a total	of 4 sheets, including this cover sheet.
	In the attached sheets, any refere to the international preliminary r	ence to the written opinion of the International Searching Authority should be read as a reference report on patentability (Chapter I) instead.
3.	This report contains indications	relating to the following items:
	Box No. I	Basis of the report
	Box No. II	Priority
	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
	Box No. IV	Lack of unity of invention
	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
	Box No. VI	Certain documents cited
	Box No. VII	Certain defects in the international application
	Box No. VIII	Certain observations on the international application
4.	The International Bureau will conot. except where the applicant ndate (Rule 44bis .2).	mmunicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but nakes an express request under Article 23(2), before the expiration of 30 months from the priority
		·

·	Date of issuance of this report 09 January 2008 (09.01.2008)
The International Bureau of WIPO 34. chemin des Colombettes 1211 Geneva 20. Switzerland	Authorized officer  Masashi Honda
Facsimile No. +41 22 338 82 70	e-mail: pt08.pct@wipo.int

Form PCT/IB/373 (January 2004)

#### PATENT COOPERATION TREATY

TRANSLATION From the INTERNATIONAL SEARCHING AUTHORITY WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) Applicant's or agent's file reference FOR FURTHER ACTION FP05-0298-00 See paragraph 2 below International application No. International filing date (day/month/year) Priority date (day/month/year) PCT/JP2005/022790 12.12.2005 30.06.2005 International Patent Classification (IPC) or both national classification and IPC Applicant HAMAMATSU PHOTONICS K.K. This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II Priority Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application FURTHER ACTION 2. If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. 3. For further details, see notes to Form PCT/ISA/220. Name and mailing address of the ISA/JP Date of completion of this opinion Authorized officer Facsimile No. Telephone No.

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2005/022790

Box	No. I Basis of this opinion	
1.	With regard to the language, this opinion has been established on the basis of:	
	the international application in the language in which it was filed	
	the translation of the international application into, which is the language of	a
	translation furnished for the purposes of international search (Rule 12.3(a) and 23.1(b)).	
2.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claim invention, this opinion has been established on the basis of:	ied
	a. type of material	
	a sequence listing	
	table(s) related to the sequence listing	
	b. format of material	
	on paper	
	in electronic form	
	c. time of filing/furnishing	
	contained in the international application as filed	
	filed together with the international application in electronic form	
	furnished subsequently to this Authority for the purposes of search	
_		
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application filed or does not go beyond the application as filed, as appropriate, were furnished.	or as
4.	Additional comments:	
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### WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2005/022790

Statement			
Novelty (N)	Claims _	1-8	
	Claims _		
Inventive step (IS)	Claims _	1-8	
	Claims _		
Industrial applicability (IA)	Claims _	1-8	
	Claims _		

- 2. Citations and explanations:
  - Document 1: JP 59-215654 A (Hamamatsu Photonics Kabushiki Kaisha), 05 December 1984, Full text; all drawings & US 4611143 A
  - Document 2: JP 2001-35238 A (Hamamatsu Photonics Kabushiki Kaisha), 09 February 2001, Full text; all drawings & US 2002/0060909 A1 & EP 1201984 A1 & WO 2001/006173 A1
  - Document 3: JP 2001-256922 A (Hamamatsu Photonics Kabushiki Kaisha), 21 September 2001, Full text; all drawings (Family: none)
  - Document 4: JP 2001-256924 A (Hamamatsu Photonics Kabushiki Kaisha), 21 September 2001. Full text; all drawings (Family: none)

Documents 1-4 are all documents cited in the ISR.

None of documents 1-4 describes the point that "the cross-section of said opening prescribed by the base level that corresponds to said first side has a noncircular shape", nor would this be obvious to a party skilled in the art. Therefore, the inventions described in claims 1-8 are neither described in any of documents 1-4, nor would they obvious to a party skilled in the art.